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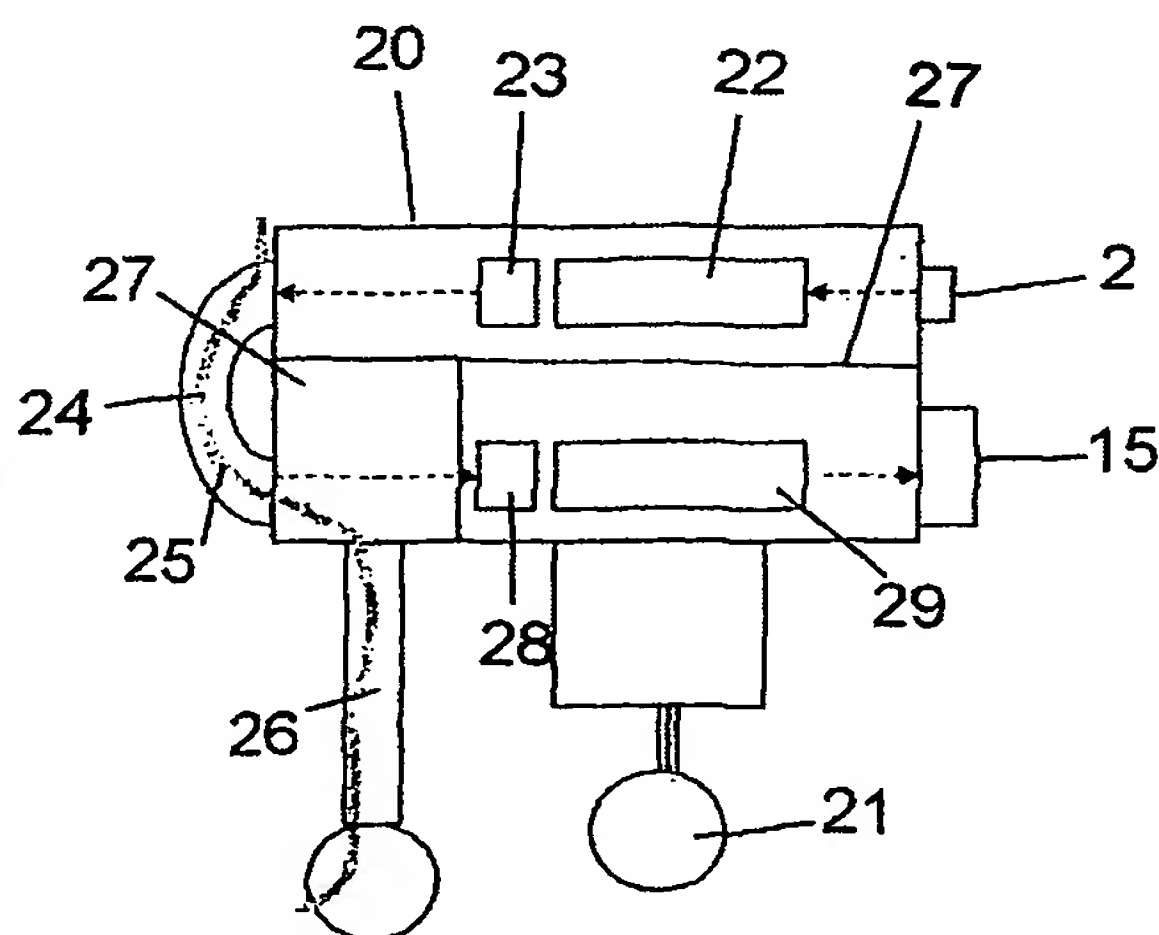
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(54) Title: **IMPROVEMENTS IN OR RELATING TO SIFT-MS INSTRUMENTS**



(57) Abstract: A SIFT or SIFDT apparatus in which the upstream quadrupole and the downstream quadrupole are housed within a single evacuated chamber (20) with the upstream quadrupole (22) being connected to the downstream quadrupole (29) by a curved flow tube (24). In a preferred form the interior of the chamber is divided into sections by an electrostatic shield (27) which shields the upstream quadrupole and source connection from the downstream quadrupole and detector.